

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101757,077B
Source: TFW516
Date Processed by STIC: 2/5/07

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/757,077B

DATE: 02/05/2007
TIME: 14:53:27

Input Set : A:\17355CIP3SEQLIST.TXT
Output Set: N:\CRF4\02052007\J757077B.raw

(pg. 6)

4 <110> APPLICANT: Steward, Lance E.
5 Fernandez-Salas, Ester
6 Herrington, Todd
7 Aoki, Kei Roger
9 <120> TITLE OF INVENTION: Clostridial Neurotoxin Compositions and
10 Modified Clostridial Neurotoxins
13 <130> FILE REFERENCE: 17355CIP3 (BOT)
15 <140> CURRENT APPLICATION NUMBER: US 10/757,077B
16 <141> CURRENT FILING DATE: 2004-01-14
18 <150> PRIOR APPLICATION NUMBER: US 09/910,346
19 <151> PRIOR FILING DATE: 2001-07-20
21 <150> PRIOR APPLICATION NUMBER: US 09/620,840
22 <151> PRIOR FILING DATE: 2000-07-21
24 <150> PRIOR APPLICATION NUMBER: US 10/163,106
25 <151> PRIOR FILING DATE: 2003-06-04
27 <160> NUMBER OF SEQ ID NOS: 83
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 7
33 <212> TYPE: PRT
34 <213> ORGANISM: Clostridium botulinum serotype A
36 <400> SEQUENCE: 1
37 Phe Glu Phe Tyr Lys Leu Leu
38 1 5
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 7
43 <212> TYPE: PRT
44 <213> ORGANISM: Rattus norvegicus
46 <400> SEQUENCE: 2
47 Glu Glu Lys Arg Ala Ile Leu
48 1 5
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 7
53 <212> TYPE: PRT
54 <213> ORGANISM: Rattus norvegicus
56 <400> SEQUENCE: 3
57 Glu Glu Lys Met Ala Ile Leu
58 1 5
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 7
63 <212> TYPE: PRT
64 <213> ORGANISM: Rattus norvegicus
66 <400> SEQUENCE: 4

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Input Set : A:\17355CIP3SEQLIST.TXT

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67 Ser Glu Arg Asp Val Leu Leu
68 1 5
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 7
73 <212> TYPE: PRT
74 <213> ORGANISM: Rattus norvegicus
76 <400> SEQUENCE: 5
77 Val Asp Thr Gln Val Leu Leu
78 1 5
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 7
83 <212> TYPE: PRT
84 <213> ORGANISM: Mus musculus
86 <400> SEQUENCE: 6
87 Ala Glu Val Gln Ala Leu Leu
88 1 5
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 7
93 <212> TYPE: PRT
94 <213> ORGANISM: Xenopus laevis
96 <400> SEQUENCE: 7
97 Ser Asp Lys Gln Asn Leu Leu
98 1 5
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 7
103 <212> TYPE: PRT
104 <213> ORGANISM: Gallus gallus
106 <400> SEQUENCE: 8
107 Ser Asp Arg Gln Asn Leu Ile
108 1 5
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 7
113 <212> TYPE: PRT
114 <213> ORGANISM: Ovis aries
116 <400> SEQUENCE: 9
117 Ala Asp Thr Gln Val Leu Met
118 1 5
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 7
123 <212> TYPE: PRT
124 <213> ORGANISM: Homo sapiens
126 <400> SEQUENCE: 10
127 Ser Asp Lys Asn Thr Leu Leu
128 1 5
131 <210> SEQ ID NO: 11
132 <211> LENGTH: 7
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 11

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137 Ser Gln Ile Lys Arg Leu Leu
138 1 5
141 <210> SEQ ID NO: 12
142 <211> LENGTH: 7
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 12
147 Ala Asp Thr Gln Ala Leu Leu
148 1 5
151 <210> SEQ ID NO: 13
152 <211> LENGTH: 7
153 <212> TYPE: PRT
154 <213> ORGANISM: Saccharomyces cerevisiae
156 <400> SEQUENCE: 13
157 Asn Glu Gln Ser Pro Leu Leu
158 1 5
161 <210> SEQ ID NO: 14
162 <211> LENGTH: 12
163 <212> TYPE: PRT
164 <213> ORGANISM: Clostridium botulinum serotype A
166 <400> SEQUENCE: 14
167 Met Pro Phe Val Asn Lys Gln Phe Asn Tyr Lys Asp
168 1 5 10
171 <210> SEQ ID NO: 15
172 <211> LENGTH: 11
173 <212> TYPE: PRT
174 <213> ORGANISM: Clostridium botulinum serotype A
176 <400> SEQUENCE: 15
177 Pro Phe Val Asn Lys Gln Phe Asn Tyr Lys Asp
178 1 5 10
181 <210> SEQ ID NO: 16
182 <211> LENGTH: 4
183 <212> TYPE: PRT
184 <213> ORGANISM: Clostridium botulinum serotype A
186 <400> SEQUENCE: 16
187 Met Tyr Lys Asp
188 1
191 <210> SEQ ID NO: 17
192 <211> LENGTH: 7
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <221> NAME/KEY: SITE
198 <222> LOCATION: (1)...(7)
199 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.
201 <221> NAME/KEY: VARIANT
202 <222> LOCATION: (1)...(1)
203 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 205 <221> VARIANT

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Input Set : A:\17355CIP3SEQLIST.TXT
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206 <222> LOCATION: (3)...(5)
207 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 209 <400> 17
W--> 210 Xaa Asp Xaa Xaa Xaa Leu Leu
211 1 5
214 <210> SEQ ID NO: 18
215 <211> LENGTH: 7
216 <212> TYPE: PRT
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <221> NAME/KEY: SITE
221 <222> LOCATION: (1)...(7)
222 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.
224 <221> NAME/KEY: VARIANT
225 <222> LOCATION: (1)...(1)
226 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 228 <221> VARIANT
229 <222> LOCATION: (3)...(5)
230 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 232 <400> 18
W--> 233 Xaa Glu Xaa Xaa Xaa Leu Leu
234 1 5
237 <210> SEQ ID NO: 19
238 <211> LENGTH: 7
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <221> NAME/KEY: SITE
244 <222> LOCATION: (1)...(7)
245 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.
247 <221> NAME/KEY: VARIANT
248 <222> LOCATION: (1)...(1)
249 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 251 <221> VARIANT
252 <222> LOCATION: (3)...(5)
253 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 255 <400> 19
W--> 256 Xaa Asp Xaa Xaa Xaa Leu Ile
257 1 5
260 <210> SEQ ID NO: 20
261 <211> LENGTH: 7
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <221> NAME/KEY: SITE
267 <222> LOCATION: (1)...(7)
268 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.
270 <221> NAME/KEY: VARIANT
271 <222> LOCATION: (1)...(1)

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272 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 274 <221> VARIANT
275 <222> LOCATION: (3)...(5)
276 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 278 <400> 20
W--> 279 Xaa Asp Xaa Xaa Xaa Leu Met
280 1 5
283 <210> SEQ ID NO: 21
284 <211> LENGTH: 7
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <221> NAME/KEY: SITE
290 <222> LOCATION: (1)...(7)
291 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.
293 <221> NAME/KEY: VARIANT
294 <222> LOCATION: (1)...(1)
295 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 297 <221> VARIANT
298 <222> LOCATION: (3)...(5)
299 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 301 <400> 21
W--> 302 Xaa Glu Xaa Xaa Xaa Leu Ile
303 1 5
306 <210> SEQ ID NO: 22
307 <211> LENGTH: 7
308 <212> TYPE: PRT
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <221> NAME/KEY: SITE
313 <222> LOCATION: (1)...(7)
314 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.
316 <221> NAME/KEY: VARIANT
317 <222> LOCATION: (1)...(1)
318 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 320 <221> VARIANT
321 <222> LOCATION: (3)...(5)
322 <223> OTHER INFORMATION: Xaa is any amino acid.
W--> 324 <400> 22
W--> 325 Xaa Glu Xaa Xaa Xaa Ile Leu
326 1 5
329 <210> SEQ ID NO: 23
330 <211> LENGTH: 7
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <221> NAME/KEY: SITE
336 <222> LOCATION: (1)...(7)
337 <223> OTHER INFORMATION: Consensus sequence for Leucine-based motif.

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Xaa Pos. 1,3,4,5 ✓

Seq#:18; Xaa Pos. 1,3,4,5 ✓

Seq#:19; Xaa Pos. 1,3,4,5 ✓

Seq#:20; Xaa Pos. 1,3,4,5 ✓

Seq#:21; Xaa Pos. 1,3,4,5 ✓

Seq#:22; Xaa Pos. 1,3,4,5 ✓

Seq#:23; Xaa Pos. 1,3,4,5 ✓

Seq#:24; Xaa Pos. 2,3,4

VERIFICATION SUMMARY

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Input Set : A:\17355CIP3SEQLIST.TXT

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L:205 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
 L:209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
 L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
 L:228 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
 L:232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
 L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
 L:251 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
 L:255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
 L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
 L:274 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
 L:278 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
 L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
 L:297 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
 L:301 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
 L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
 L:320 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
 L:324 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
 L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
 L:343 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
 L:347 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
 L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
 L:366 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
 L:370 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
 L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
 L:905 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53
 L:926 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54
 L:951 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55
 L:972 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56
 L:976 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56
 L:1001 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:57
 L:1022 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58
 L:1047 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59
 L:1068 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60
 L:1093 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
 L:1114 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62
 L:1139 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63
 L:1143 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63
 L:1164 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:64
 L:1189 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:65
 L:1210 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
 L:1235 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67
 L:1256 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68
 L:1281 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:69
 L:1285 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:69
 L:1306 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:70
 L:1331 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:71
 L:1352 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:72
 L:1377 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:73

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L:1398 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:74
L:1402 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:74
L:1427 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:75
L:1448 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:76
L:1473 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:77
L:1494 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:78
L:1519 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:79
L:1540 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:80